

End-of-year review – number, measures and shape

MODULE 10 · ALGEBRA — PATTERNS, RULES AND NUMBER SENTENCES

ALGEBRA

HOW TO ANSWER TODAY

- **Convert units.** To a SMALLER unit → multiply. To a BIGGER unit → divide. Common factors:
 $\text{cm} \leftrightarrow \text{mm} \times 10$, $\text{m} \leftrightarrow \text{cm} \times 100$, $\text{km} \leftrightarrow \text{m} \times 1,000$, $\text{kg} \leftrightarrow \text{g} \times 1,000$, $\text{l} \leftrightarrow \text{ml} \times 1,000$.
 $250 \text{ cm} \rightarrow \text{m}: \div 100 = 2.5 \text{ m}$ · $3.5 \text{ kg} \rightarrow \text{g}: \times 1,000 = 3,500 \text{ g}$
- **Name a 2D shape.** Count sides, check which are equal, count right angles, check parallel pairs. Then name it.
 $4 \text{ equal sides, } 0 \text{ right angles} \rightarrow \text{rhombus}$ · $4 \text{ sides, } 1 \text{ pair parallel} \rightarrow \text{trapezium}$
- **Fraction of a quantity.** Divide the quantity by the bottom number (denominator). Multiply by the top number (numerator).
 $3/5 \text{ of } 20 \rightarrow 20 \div 5 = 4, \times 3 = 12$

★ STRETCH PROBLEMS

- 1 Cian's family drove **60 km** from Cork to visit his cousins in Waterford. He wants to write the distance in centimetres for his maths copy. How many cm is **60 km**?
 Convert 60 km to cm.
- 2 The Camogie coach paces out a sprint lane under the floodlights, measuring **94 m** along the sideline. She wants to mark the lane with cones every metre and needs the length in centimetres for the training plan. How many centimetres is **94 m**?
 Convert 94 m to cm.
- 3 Aoife is cutting a shape for the front of her papier-mâché mask for the school play. Her shape has **6** equal sides and **6** equal angles. What 2D shape is she cutting?
 Which 2D shape has these properties: 6 equal sides and 6 equal angles?
- 4 The 4th class team cycle a total of **26 km** to and from the Cumann na mBunscol blitz at the county grounds. The coach asks them to write the distance in metres for the school noticeboard. How many metres did they cycle?
 Convert 26 km to m.
- 5 **95** pupils from 3rd and 4th class are on a coach trip to the Burren in Clare. **3/5** of the pupils bring a packed lunch from home. How many pupils bring a packed lunch?
 What is $3/5$ of 95?